



GROUP	MODEL
ELE	2025MY Carnival (KA4) and Carnival HEV (KA4 HEV)
NUMBER	DATE
360	November 2024

TECHNICAL SERVICE BULLETIN

SUBJECT: **SERVICE ACTION: CCU LOGIC IMPROVEMENT (SA593)**

This bulletin provides the procedure to update the software logic of the Central Communication Unit (CCU) system on certain 2025MY Carnival (KA4) vehicles produced from April 15, 2024 through August 26, 2024 and Carnival HEV (KA4 HEV) vehicles produced from July 8, 2024 to September 23, 2024. The affected vehicles may experience a 'dark current' draw from the 12V battery while the vehicle is parked, potentially resulting in low battery voltage and no-start condition. Follow the procedure outlined in this publication to apply the improved logic to the 'CCU' system using the KDS ECU Upgrade function as described in this bulletin. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs. For confirmation that the latest reflash has been applied to a vehicle you are working on, verify the ROM ID using the table on page 3 of this bulletin.

This software upgrade may also be available via an Over-the-Air (OTA) update on vehicles with an 'active' Kia Connect subscription.



NOTICE

A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.

This issue number is SA593.

ECU Upgrade Procedure:

To correct this condition, the ECU should be reprogrammed using the KDS download, as described in this bulletin.

Upgrade Event Name

758.KA4 PE, KA4 PE HEV CCU Operation Logic Improvement for Non-Sleep/Discharge (AP, Ethernet)

759.KA4 PE, KA4 PE HEV CCU Operation Logic Improvement for Non-Sleep/Discharge (MCU, Ethernet)

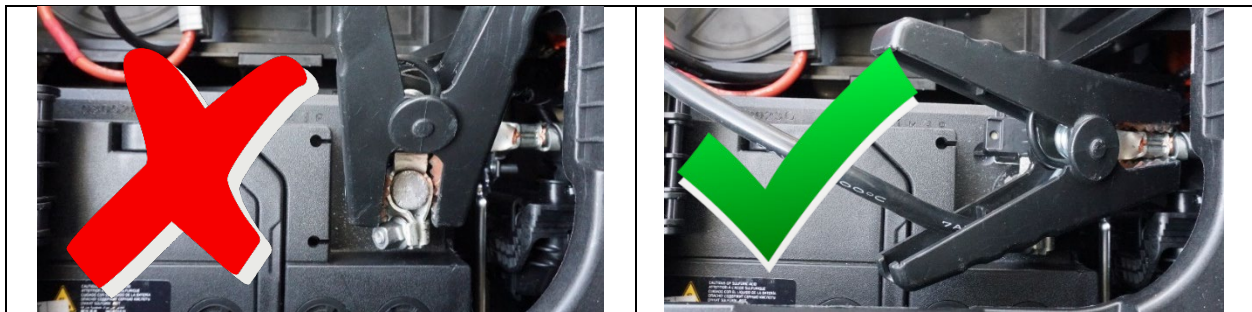
NOTICE

- Confirm a fully charged battery (12.3 volts or higher is necessary) is used or utilize a fully charged jump starter box connected to the battery.
- **Ensure the KDS GDS is sufficiently charged at 60% or higher prior to reflash.**
- All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
- **Damaged VCI II units should not be used and promptly replaced.**
- Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
- **DO NOT start the engine during ECU upgrade.**
- DO NOT turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
- **When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.**
- ONLY use approved ECU upgrade software designated for the correct application.

IMPORTANT

It is recommended to ALWAYS check the Electronic Parts Catalog (EPC) to locate the ECU Part Number respective to Auto/Manual Mode ROM IDs. DO NOT reference the parts label affixed to the ECU.


[Connect the negative \(-\) terminal to the battery as shown below.](#)



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NOTICE


Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer  security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.

IMPORTANT

Both 'CCU' system Events #758 and #759 are required to be installed.

ROM ID INFORMATION TABLE:

Upgrade Event #758 and #759

Event	System	Unit	IMMO 	ECU P/No.	ROM ID	
					Previous	New
758	CCU	AP	Yes	91920 R0000 91920 R0100	1.32.35	1.32.49
759		MCU			1.32.17	1.32.21

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.

Manual Upgrade Procedure:

NOTICE

The manual upgrade should ONLY be performed if the automatic upgrade fails.

If the automatic upgrade fails, turn the ignition 'OFF' for about 10 seconds then place it back in the 'ON' position to reset the control unit BEFORE performing manual upgrade.

See table below for 'Manual Mode' passwords.

Manual Mode ECU Upgrade Passwords

Event No.	Menu	Password
758	KA4 PE, KA4 PE HEV SW1 (AP): 91920-R0000/100	4649
759	KA4 PE, KA4 PE HEV SW3 (MCU): 91920-R0000/100	4650



Refer to [TSB SST081](#) for instructions to upgrade the 'CCU' system:

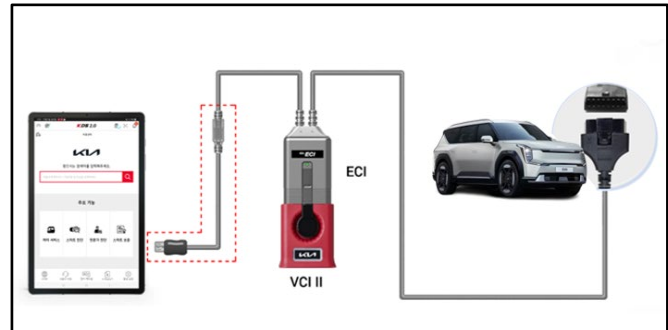
❗ IMPORTANT

Both system Events #788 and #789 are required to be installed.

An **Over-The-Air (OTA)** Software Update for this procedure is planned for release but may not be available at the time of TSB publication. Dealers can confirm OTA availability by checking for OTA release notes on the [Owners Portal](#) of [kia.com](#): [OTA Software Update Release Notes](#)

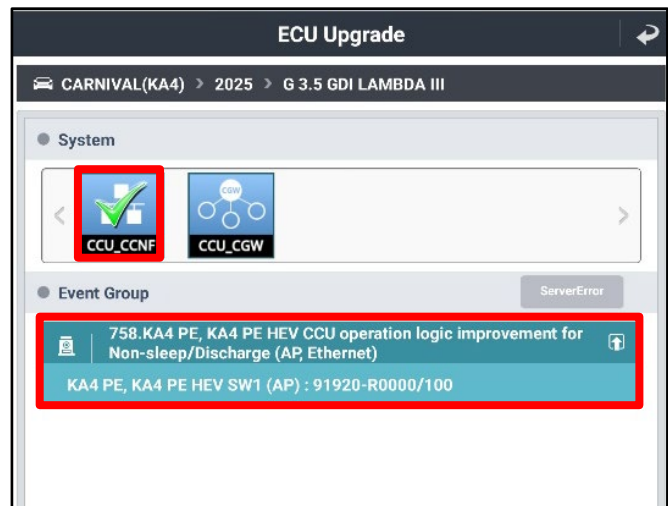
Ensure the ECI cable is configured by referring to the ['KDS Configuration for ECI Cable Usage'](#).

- 1a. Connect the ECI DLC connector to the OBD-II connector, located under the driver's side of the instrument panel.
- 1b. Connect the ECI USB -C connector to the KDS tablet.
- 1c. Connect the VCI II to the ECI OBD-II connector.



2. **UPGRADE BOTH EVENTS:**

- 758.KA4 PE, KA4 PE HEV CCU Operation Logic Improvement for Non-Sleep/Discharge (AP, Ethernet)
- 759.KA4 PE, KA4 PE HEV CCU Operation Logic Improvement for Non-Sleep/Discharge (MCU, Ethernet)



❗ IMPORTANT

If the automatic upgrade fails, error code '9000-37-7F22' may appear on the screen during the first manual upgrade attempt. However, in most cases, attempting the manual upgrade a second time is typically successful.



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AFFECTED VEHICLE RANGE:

Model	Production Date Range
Carnival (KA4)	April 15, 2024 to August 26, 2024
Carnival HEV (KA4 HEV)	July 8, 2024 to September 23, 2024

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
KDS	N/A		Kia Diagnostic System
ECI Adapter	GIT1XDDMN057 or GIT0XDDMN052		Located in Toolbox #1 Drawer #8

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
KA4	V	91920 R0000	0	(SA593A) CCU Logic Improvement	240174R0	0.4 M/H	N/A	0
KA4 HEV				(SA593B) CCU Logic Improvement	240174R1			

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SA593** when accessing the KDealer+ system.

